

IN THE SPECIFICATION:

Change the title to --Single Sensor Electronic Video Camera Technique With Diagonally
Coupled Pixels--

Delete the Abstract and substitute the Abstract set forth on the attached sheet.

Page 3, correct the first paragraph as follows:

In accordance with an embodiment of the invention a ~~methodis~~ method is set forth for producing electronic video signals representative of color images of a scene, comprising the following steps: providing a sensor having a color filter thereover; providing a motion picture film camera type of lens system that focuses light from said image onto said color filter and sensor; and producing electronic video signals from the output of said sensor; said color filter having a pattern RYRY... on alternating lines, and a pattern YRYR... on every other line.

Page 5, correct the first paragraph as follows:

Figure 1 shows a camera system in accordance with an embodiment of the invention and which can be ~~utilize~~ utilized in practicing an embodiment of the method of the invention. Light received from a scene 5 being viewed (typically, a moving scene) is received and focused by a motion picture film camera type of lens, represented in the Figure by lens 110, which is typically a multi-element lens or lens system. [As used herein, the term "lens system" is intended to generically cover a lens of one or more elements as well as a system of lenses. The term "lens" is sometimes used as

convenient shorthand for a lens system.] Light from the image is passed through an optical low pass prefilter 20 which can be, for example, a birefringent filter or a diffraction grating filter. The light output from prefilter 20 is incident on an image sensor 60 which has a color pattern filter 50 thereon. In an example of the present embodiment, the image is oversampled. A CCD sensor 60 of a type made by Eastman Kodak Company has 1620x2880 pixels, which can be clocked out at 40 MHz to two horizontal registers and scan converted to 1080x1920.

Page 8, correct the first full paragraph as follows:

In an example of this embodiment, the line spacing can be 10 microns and the spacing between pixels of the same color on a line can be 20 microns. The subpixel width would therefore be a little under 7 microns. This system would have the same perceived resolution as a cardinally sampled 21x12 micron pixel CCD. The same result can be achieved if this pattern is rotated 90 degrees. Figure 5 illustrates an example of how the diagonal offset pixels can be read out to three horizontal registers, for R, ~~G~~, G, and B, respectively.